Pure Forms LLC

MPE ASSESSMENT REPORT

Report Type:
FCC Part §2.1091 and §1.1307(b) assessment report

Model:
DL2197

REPORT NUMBER:
230900893SHA-004

ISSUE DATE:
July 2, 2024

DOCUMENT CONTROL NUMBER:
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Intertek Testing Services Shanghai
Building No.86, 1198 Qinzhou Road (North)
Caohejing Development Zone
Shanghai 200233, China

Telephone: 86 21 6127 8200
www.intertek.com

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TEST REPORT

Report no.: 230900893SHA-004

Applicant:	Pure Forms LLC 4744 Center Park, San Antonio, Texas, 78218 USA
Manufacturer:	Zhongshan Luxgend Electronics Co.,Ltd 7th, Jiahua Rd., Qianlong, Sanxiang Town, Zhongshan City, Guangdong Province, China 528463
Manufacturer Site:	Zhongshan Luxgend Electronics Co.,Ltd 7th, Jiahua Rd., Qianlong, Sanxiang Town, Zhongshan City, Guangdong Province, China 528463
Product Name:	Desklamp
Type/Model:	DL2197
FCC ID:	2BGAI-8930-8935

SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:
KDB447498 D01 General RF Exposure Guidance v06 FCC Part2.1091, FCC Part1.1307(b)

PREPARED BY:	**REVIEWED BY:**
Project Engineer Dylan Tang	Reviewer Wakeyou Wang

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Revision History

Report No.	Version	Description	Issued Date
230900893SHA-004	Rev. 01	Initial issue of report	July 2, 2024

TEST REPORT

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	Desklamp
Type/Model:	DL2197
Description of EUT:	The EUT is a Desklamp, it has only one model.
Rating:	DC24V INPUT, 150W Max Adapter: Manufacturer: SHENZHEN PENGSHENGYE ELECTRONIC CO.,LTD Model: PSY2407500MM Input: 100-240Vac, 50/60Hz, Max 3A Output: 24.0V ⎓ 7.5A 180.0W
Category of EUT:	Class B
EUT type:	☒ Table top ☐ Floor standing
Software Version:	8930-SW-V0
Hardware Version:	8930-HW-V0
Sample received date:	October 15, 2023
Date of test:	October 15, 2023 ~ April 8, 2024

1.2 Technical Specification

Frequency Range:	24000MHz ~ 24250MHz
Type of Modulation:	FSK
Channel Number:	1
Antenna Information:	Integrated antenna

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1.3 Description of Test Facility

Name:	Intertek Testing Services Shanghai
Address:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L0139
	FCC Accredited Lab Designation Number: CN0175
	IC Registration Lab CAB identifier.: CN0014
	VCCI Registration Lab Registration No.: R-14243, G-10845, C-14723, T-12252
	A2LA Accreditation Lab Certificate Number: 3309.02

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2 MPE Assessment

Test result: Pass

2.1 MPE Assessment Limit

Mobile device exposure for standalone operations:

According to§1.1310, the limit for general population/uncontrolled exposures

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm^2)	Averaging time (minutes)
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f2)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

Mobile device exposure for simultaneous transmission operations: **the sum of the MPE ratios for all simultaneously transmitting antennas incorporated in a host device is ≤ 1.0**

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2.2 Assessment Results

Power density (S) is calculated according to the formula:

$S = PG / (4\pi R^2)$

Where S = power density in mW/cm^2

P = Radiated transmit power in mW

G = numeric gain of transmit antenna

R = distance (cm)

As we can see from the test report 230900893SHA-003:

The calculations in the table below use the highest gain of antenna for client EUT. These calculations represent worst case in terms of the exposure levels.

Frequency band	Fundamental Radiated Emission	Maximum EIRP	R	S	Limits
(MHz)	(dBuV/m)	dBm	(cm)	(mW/cm2)	(mW/cm2)
24000 ~ 24250	96.68	1.45	20	0.0003	1

Note: 1 mW/cm2 from 1.310 Table 1.

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Appendix I

Definition below must be outlined in the User Manual:

To satisfy FCC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation.
To ensure compliance, operations at closer than this distance is not recommended.

**********END**********